

Selected Publications:

Fahroo, F. and Ross, I.M., "Costate Estimation by a Legendre Pseudospectral Method," *Journal of Guidance, Control and Dynamics*, Vol. 24, No. 2, pp. 270-277, March-April 2001.

Fahroo, F. and Ross, I.M., "A Second Look at Approximations to Differential Inclusions," *Journal of Guidance, Control and Dynamics*, Vol. 24, No. 1, January-February 2001.

Fahroo, F. and Ross, I.M., "A Spectral Patching Method for Direct Trajectory Optimization," *The Journal of the Astronautical Sciences*, vol. 48, No. 2/3, April-September 2000.

Ross, I.M., Park, S.-Y. and Porter, S.E., "Gravitational Effects of Earth in Optimizing Delta-V for deflecting Earth-Crossing Asteroids," *accepted for publication in the Journal of Spacecraft and Rockets*.

Fahroo, F. and Ross, I.M., "Direct Trajectory Optimization by a Chebyshev Pseudospectral Method," *accepted for publication in the Journal of Guidance, Control and Dynamics*.

Ross, I. M. and Alfriend, K.T., "Low-Earth-Orbit Maintenance: Reboost Versus Thrust-Drag Cancellation", *Journal of Guidance, Control and Dynamics*, Vol. 18, No. 4, pp. 930-932, July-August 1995.

Ross, I. M., "Formulation of Stability Conditions for Systems Containing Driven Rotors", *Journal of Guidance, Control and Dynamics*, Vol. 19, No. 2, pp. 305-308, Mar-Apr. 1996

Ross, I. M., "Extremally Steered Singular Thrust-Arcs for Space Flight in an Atmosphere", *Acta Astronautica, Journal of the International Academy of Astronautics*, Vol. 39, No. 8, pp. 569-577, October 1996.

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Ross, I. M. and Nicholson, J. C., "Performance and Optimality of the Heating-Rate-Constrained Aerocruise Maneuver", *Journal of Spacecraft and Rockets*, Vol. 35, No. 3, pp. 361-364, May-June 1998.

Hall, C. D. and Ross, I. M., "Dynamics and Control Problems in the Deflection of Near-Earth Objects", *Advances in the Astronautical Sciences, Astrodynamics*, 1997, Vol. 97, AAS Paper No. 97-640.

Park, S. Y., Elder, J. T., and Ross, I. M., "Minimum Delta-V for Deflecting Earth-Crossing Asteroids", *Advances in the Astronautical Sciences, Astrodynamics*, 1997, Vol. 97, AAS Paper No. 97-727.

Ross, I. M., "Formulation of Stability Conditions for Systems Containing Driven Rotors", *Journal of Guidance, Control and Dynamics*, Vol., 19, No. 2, Mar.-Apr.1996, pp. 305-308.